

Introduction

- About 63% of red meat consumed worldwide comes from goats.
- 1.5 million pounds of goat meat is imported into the United States every week, with demand steadily increasing.
- There is limited research on the effects of different protein sources on goat growth and carcass quality.
- SoyPlus and SoyChlor are soybean-based products rapidly gaining popularity in the feed industry.

Objective

• To evaluate the effects of varying protein sources and chloride sources in boer goat diets and evaluate their impacts on growth and carcass quality.

Experimental Procedures

- 75 feedlot Boer goats, approx. 50 lbs. starting weigh divided randomly into pens of 3 with 5 pens per treated
- Treatments consisted of:
 - 1) 18.7% SBM with 0.75% NH4Cl
 - 2) 34.4% DDGS with 0.75% NH4Cl
 - 3) 22.0% SoyPlus with 0.75% NH4Cl
 - 4) 17.2% SBM with 4.83% SoyChlor
 - 5) 20.0% SoyPlus with 4.83% SoyChlor
- For two weeks, goats were accustomed to a standar before beginning trial diets.
- The goats were fed their treatment diet for 42d after starter diets were complete.
- The goats had continual access to feed and the weight any feed added was recorded.
- The goats and their feeders were weighed weekly.
- ADG, ADFI, and G:F were calculated at the end of the experiment.
- Carcass traits were calculated at the end of the experiment.

Impact of Varying Protein Sources and Chloride Inclusion on Feedlot Goat Growth and **Carcass Traits** A.P. Gauthier, R.J. Sorensen, A.R. Crane, J.L. Lattimer, and C.K. Jones Department of Animal Sciences and Industry, Kansas State University, Manhattan



	Carcass Trait Results											
	Protein source:	SBM	DDGS	SoyPlus	SBM	SoyPlus				P =		
nt, were atment.	Chloride source:	NH4C1	NH4C1	NH4C1	SoyChlor	SoyChlor	SEM	Treatment	SBM vs.	SBM vs.	DDGS vs.	NH4Cl vs. SovChlor
	n =	10	10	10	10	10	DLIVI	ITCathtent		Soyrius	Soyrius	SoyChior
	Hot carcass weight, kg	15.6	14.5	13.1	16.4	14.7	1.09	0.264	0.252	0.058	0.672	0.231
	Carcass yield, %	50.7	49.4	48.3	50.7	49.6	1.11	0.519	0.344	0.122	0.742	0.504
	Loin eye area, cm ²	10.8 ^a	9.4 ^{ab}	9.5 ^{ab}	11.4 ^a	8.8 ^b	0.66	0.046	0.040	0.005	0.781	0.750
	Loin eye depth, cm	2.6	2.4	2.4	2.6	2.3	0.11	0.135	0.120	0.021	0.719	0.778
rd diet	Backfat depth, mm	0.9	1.2	1.0	1.1	1.2	0.17	0.710	0.379	0.513	0.727	0.461
er the	Body wall thickness, cm	1.5	1.6	1.5	1.7	1.5	0.13	0.756	0.928	0.515	0.534	0.437
ght of	Conclusions						Acknowledgements					
	 Overall there was no significant change (P>0.05) in the ADG 						This project was sponsored by Dairy Nutrition Plus, creators and distributors of SouPlus and SouChlar, We also would like to					

between the five treatments.

• DDGS are shown to be the most cost-effective choice when compared to the other protein sources.

• Carcasses fed SBM had greater carcass traits compared to other protein sources.

Experimental Period Results

distributors of SoyPlus and SoyChior. We also would like to acknowledge Joe Hubbard and the employees at the Kansas State University Sheep and Meat Goat Center.

